ELSEVIER

Journal of Organometallic Chemistry 566 (1998) 305–306

Journal of Organometallic Chemistry

Author index of Volume 566

Accorroni, F., 187
Adams, H., 93
Adam, W., 259
Alvarez-Larena, Á., 165
Alvarez Toledano, C., 175
Amberger, H.-D., 125

Babudri, F., 251
Baker, P.K., 245
Barba, L., 187
Beller, M., 277
Bös, B., 143
Breindl, C., 277
Bringmann, G., 225
Brunet, J.-J., 117
Brunner, H., 203

Canovese, L., 61
Cassetta, A., 187
Chauvin, R., 117
Chessa, G., 61
Chiffre, J., 117
Cingolani, A., 187
Coles, S.J., 245
Cutler, A.R., 1

de la Encarnación, E., 165
Disley, S.P.M., 151
Doye, S., 287

Eckert-Maksić, M., 85
Edelmann, F.T., 125
Edelstein, N.M., 125
Egorov, M.P., 73
Eichberger, M., 277

Fajgar, R., 263
Fernández, A., 93
Fernández, J.J., 93
Fiandanese, V., 251
Fickert, C., 225
Fried, A., 271

Galindo, A., 211
Garrone, R., 37
Ghosh, S., 159
Grime, R.W., 151
Grivin, V.P., 73
Grün, K., 271
Gutiérrez-Puebla, E., 211
Guzei, I.A., 159

Hajgholipour, M.T., 143
Harrison, N.S., 245
Huguet, S., 117
Hursthouse, M.B., 245
Huttner, G., 271

Ikushima, N., 111
Ivanov, Y.V., 73

Jehle, H., 225, 259
Jinshan, L., 103

Kaidzu, M., 111
Kaitner, B., 85
Keglevich, G., 29
Kerzina, Z.A., 45
Khabashesku, V.N., 45
Khachatryan, L., 263
Kiefer, W., 225
Kirin, S.I., 85
Klimova, E.I., 175
Klimova, T., 175
Kruppa, A.I., 73
Kryza-Niemiec, B., 217
Kudin, K.N., 45

Landrum, B.E., 1
Lata, D., 93
Latif, L.A., 245
Leblanc, J.-C., 203
Leglaye, P., 117
Leshina, T.V., 73
López Torres, M., 93
Lotz, S., 133
Lucas, D., 203

Maercker, A., 143
Malisch, W., 225, 259, 271
Mao, L., 9
Marchese, G., 251
Marchetti, F., 187
Marita Roos, H., 133
Martínez García, M., 175
Mashima, K., 111
Mathur, P., 159
McInnes, E.J.L., 151
Mednikov, E.G., 15
Meehan, M.M., 245
Meier, W., 203
Mestrović, E., 85
Millini, R., 37
Mitchel, C., 259
Moise, C., 203
Moldes, I., 165
Möller, S., 225
Monge, A., 211
Moreno Esparza, R., 175
Mugnier, Y., 203
Müller, T.E., 277

Nagel, V., 225
Nakamura, A., 111
Nakayama, Y., 111
Nefedov, O.M., 45, 73
Nuber, B., 203
Nyulászi, L., 29

Ortigueira, J.M., 93

Pastor, A., 211
Pasynkiewicz, S., 217
Pereira, M.T., 93
Pesce, A., 61
Pettinari, C., 187
Pfister, H., 271
Pietrzykowski, A., 217
Piniella, J.F., 165
Pinkes, J.R., 1
Plyusnin, V.F., 73
Pola, J., 263
Punzi, A., 251

Qian, C., 21
Qinglan, X., 103

Reddmann, H., 125
Reich, W., 271
Rheingold, A.L., 159
Rigny, S., 203
Romano, A.M., 37
Ros, J., 165
Ruben Toscano, A., 175
Ruíz Ramírez, L., 175

Sadorge, A., 203
Santi, R., 37
Sarkar, A., 159
Shen, Q., 9
Slovokhotov, Y.L., 15
Soós, L., 29
Spencer, D.M., 151
Stowasser, R., 225
Struchkov, Y.T., 15
Sun, J., 9, 21
Swainston, N., 151

Taraban, M.B., 73
Terblans, Y.M., 133
Tetrick, S.M., 1
Trauthwein, H., 277

PII S0022-328X(98)00859-6

Uguagliati, P., 61
Unrecht, B., 125

Vikić-Topić, D., 85
Vila, J.M., 93
Visentin, F., 61
Volkova, O.S., 73
Volnina, E.A., 263

Wachter, J., 203
Wartchow, R., 287
Whiteley, M.W., 151
Wong, W.-T., 237

Xueqing, S., 103

Yeuk-Wah Hung, S., 237

Zachara, J., 217
Zapf, A., 277
Zhiqiang, Y., 103
Zou, G., 21
Zsolnai, L., 271

ELSEVIER

Journal of Organometallic Chemistry 566 (1998) 307–311

Journal of Organometallic Chemistry

Subject index of Volume 566

Ab initio calculations
Study of the planarization of the tricordinate phosphorus in phospholes; photoelectron spectra and structure of partially planarized phospholes, 29
Alkoxycarbonyl
New palladium (substituted 1,10-phenanthroline) bis(methoxycarbonyl) complexes $[Pd(L-L)(CO_2CH_3)_2]$: preparation and structural features, 37
Alkylation
Regioselectivity of alkylation of the naphthalene fragment in the opening of a small ring in 3-ferrocenyl-3-(1-naphthyl)-cyclopropene, *Z*-2-bromo-1-ferrocenyl-1-(1-naphthyl)cyclopropane, and 1-ferrocenyl-1-(1-naphthyl)cyclopropane, 175
Allyl ligand
Zur Elektronenstruktur metallorganischer Komplexe der f-Elemente XLVII. Gelingt die Aufklärung der Elektronenstrukturen von η^3-Allylverbindungen der Lanthaniden anhand der Kristallfeld-Parameter von Heteroallylkomplexen?, 125
Amination of olefins
New cationic rhodium–amine complexes and their implication in the catalytic anti-Markovnikov oxidative amination of styrenes, 277
Amines
New cationic rhodium–amine complexes and their implication in the catalytic anti-Markovnikov oxidative amination of styrenes, 277
ansa-Metallocene
Synthesis and characterization of *rac*-[ethylene-1,2-bis(η^5-4,5,6,7-tetrahydro-1-indenyl)]zirconium bisamides (EBTHI)Zr-$(NHR)_2$, 287
Anthracene
Polymerization of ethylene catalyzed by half-metallocene complexes of niobium, tantalum, and zirconium bearing *o*-xylylene or anthracene as an auxiliary ligand: molecular structure of $[Mg_2Cl_3(THF)_6][ZrCl_2(\eta^5\text{-}C_5Me_5)$ (η-1–4-anthracene)], 111
Anti-Markovnikov reaction
New cationic rhodium–amine complexes and their implication in the catalytic anti-Markovnikov oxidative amination of styrenes, 277
Antitumor activity
Synthesis, structures and in vitro antitumor activity of some germanium-substituted di-*n*-butyltin dipropionates, 103
Arene
Ruthenium(II) complexes containing both arene and functionalized phosphines. Synthesis and catalytic activity for the hydrogenation of styrene and phenylacetylene, 165
Aromaticity
Study of the planarization of the tricordinate phosphorus in phospholes; photoelectron spectra and structure of partially planarized phospholes, 29
Benzamidinato ligand
Zur Elektronenstruktur metallorganischer Komplexe der f-Elemente XLVII. Gelingt die Aufklärung der Elektronenstrukturen von η^3-Allylverbindungen der Lanthaniden anhand der Kristallfeld-Parameter von Heteroallylkomplexen?, 125
Bimetallic complexes
Synthesis, characterization and decomposition patterns for thienylene bridged dinuclear biscarbene complexes of manganese and chromium in refluxing carbon disulphide and acetone, 133
Bipyridine
Synthesis and redox properties of the cycloheptatrienylmolybdenum complexes $[MoX(N-N)(\eta\text{-}C_7H_7)]^{z+}$, (N–N = 2,2′-bipyridine or 1,4-Bu^t_2-1,3-diazabutadiene; $z = 0$, X = Br or Me; $z = 1$, X = NCMe, $CNBu^t$ or CO), 151
Bipyridyl
(1-Phenyl-3-methyl-4-acetylpyrazolon-5-ato)rhodium(I) complexes, synthesis, structural and spectroscopical characterization: Reactivity of diolefin- and dicarbonyl-rhodium complexes toward N-, P- and O-donors, 187
Biradicals
Paramagnetic intermediates in the photolysis of 7-silanorbornadiene studied by means of spin chemistry method, 73
Biscarbene complexes
Synthesis, characterization and decomposition patterns for thienylene bridged dinuclear biscarbene complexes of manganese and chromium in refluxing carbon disulphide and acetone, 133
bis(Tetrahydroindenyl)
Synthesis and characterization of *rac*-[ethylene-1,2-bis(η^5-4,5,6,7-tetrahydro-1-indenyl)]zirconium bisamides (EBTHI)Zr-$(NHR)_2$, 287

Carbene
Isolation and characterization of $[Fe_2(CO)_6Se_2\{\mu\text{-}(CO)_3Cr(\eta^5\text{-}C_5(H)(CH_2Ph)(Ph)(OEt)\}]$, $[(CO)_6Fe_2\{\mu\text{-}EC(Ph)=C(E')C(H)(OEt)\}]_2$ and $[(CO)_6Fe_2\{\mu\text{-}SC(H)(Ph)C(Te)=C(H)(OEt)\}]$ from the thermolysis of Fischer carbene adducts $[(CO)_6Fe_2EE'\{\mu\text{-}C(Ph)=C-C(OEt)=Cr(CO)_5\}]$ (E, E′ = Se and E = S, E′ = Te), 159
Synthesis, characterization and decomposition patterns for thienylene bridged dinuclear biscarbene complexes of manganese and chromium in refluxing carbon disulphide and acetone, 133
Carbenoids
Regioselectivity of alkylation of the naphthalene fragment in the opening of a small ring in 3-ferrocenyl-3-(1-naphthyl)-cyclopropene, *Z*-2-bromo-1-ferrocenyl-1-(1-naphthyl)-cyclopropane, and 1-ferrocenyl-1-(1-naphthyl)cyclopropane, 175

PII S0022-328X(98)00860-2

Carbocations
Regioselectivity of alkylation of the naphthalene fragment in the opening of a small ring in 3-ferrocenyl-3-(1-naphthyl)cyclopropene, *Z*-2-bromo-1-ferrocenyl-1-(1-naphthyl)-cyclopropane, and 1-ferrocenyl-1-(1-naphthyl)cyclopropane, 175
Carbonylation
New palladium (substituted 1,10-phenanthroline) bis(methoxycarbonyl) complexes $[Pd(L-L)(CO_2CH_3)_2]$: preparation and structural features, 37
Carbonylferrates
New chiral zwitterionic iron hydride complexes with 'ephosium' and 'valphosium' ligands, 117
Carbonyls
Synthesis and X-ray structure of a novel 12-nuclear cluster $Pd_{12}(CO)_{12}(PBu^n_3)_6$, 15
Catalysis
New cationic rhodium–amine complexes and their implication in the catalytic anti-Markovnikov oxidative amination of styrenes, 277
Chiral lanthanocene
Chiral lanthanocene complexes with an ether-functionalized indene ligand: synthesis and structure of bis{1-(2-methoxyethyl)-indenyl}lanthanocene chlorides, 21
Chiral phosphinite-ammoniums
New chiral zwitterionic iron hydride complexes with 'ephosium' and 'valphosium' ligands, 117
CIDNP
Paramagnetic intermediates in the photolysis of 7-silanorbornadiene studied by means of spin chemistry method, 73
Cluster
Isolation and characterization of $[Fe_2(CO)_6Se_2\{\mu\text{-}(CO)_3Cr(\eta^5\text{-}C_5(H)(CH_2Ph)(Ph)(OEt)\}]$, $[(CO)_6Fe_2\{\mu\text{-}EC(Ph)=C(E')C(H)(OEt)\}]_2$ and $[(CO)_6Fe_2\{\mu\text{-}SC(H)(Ph)C(Te)=C(H)(OEt)\}]$ from the thermolysis of Fischer carbene adducts $[(CO)_6Fe_2EE'\{\mu\text{-}C(Ph)=C-C(OEt)=Cr(CO)_5\}]$ (E, E′ = Se and E = S, E′ = Te), 159
Clusters
Reactions of $[Os_3(\mu\text{-}H)_2(CO)_{10}]$ with [Rh(COD)(L)I] (COD = cycloocta-1,5-diene; L = 2,2′-bipyridine, 1,10-phenanthroline and 4,4′-diphenyl-2,2′-dipyridyl): crystal and molecular structures of $[Os_3Rh(\mu\text{-}H)_3(CO)_{10}(\eta^4\text{-}COD)]$, $[Os_3Rh(\mu\text{-}H)_2(CO)_8(\mu\text{-}CO)(\mu\text{-}I)(\eta^4\text{-}COD)]$ and $[Os_3Rh(\mu\text{-}H)_2(CO)_8(\mu\text{-}CO)(\mu\text{-}I)(bipy)]$, 237
Synthesis and X-ray structure of a novel 12-nuclear cluster $Pd_{12}(CO)_{12}(PBu^n_3)_6$, 15
Crystal field parameters
Zur Elektronenstruktur metallorganischer Komplexe der f-Elemente XLVII. Gelingt die Aufklärung der Elektronenstrukturen von η^3-Allylverbindungen der Lanthaniden anhand der Kristallfeld-Parameter von Heteroallylkomplexen?, 125
Crystal structure
Chiral lanthanocene complexes with an ether-functionalized indene ligand: synthesis and structure of bis{1-(2-methoxyethyl)-indenyl}lanthanocene chlorides, 21
Synthesis and characterization of *rac*-[ethylene-1,2-bis(η^5-4,5,6,7-tetrahydro-1-indenyl)]zirconium bisamides (EBTHI)Zr-$(NHR)_2$, 287
Synthesis, structures and in vitro antitumor activity of some germanium-substituted di-*n*-butyltin dipropionates, 103
Cycloaddition
Cycloadditionsreaktionen von Molybdän- und Wolfram-Phosphoniumkomplexen mit Diazoethylacetat: Synthese und strukturelle Charakterisierung von drei- und fünf-gliedrigen Phosphametallacyclen: Phosphenium-Komplexe, 39, 271
[4 + 2]-Cycloadducts
Regioselectivity of alkylation of the naphthalene fragment in the opening of a small ring in 3-ferrocenyl-3-(1-naphthyl)cyclopropene, *Z*-2-bromo-1-ferrocenyl-1-(1-naphthyl)-cyclopropane, and 1-ferrocenyl-1-(1-naphthyl)cyclopropane, 175
Cycloheptatrienyl
Synthesis and redox properties of the cycloheptatrienylmolybdenum complexes $[MoX(N-N)(\eta\text{-}C_7H_7)]^{z+}$, (N–N = 2,2′-bipyridine or 1,4-Bu^t_2-1,3-diazabutadiene; $z = 0$, X = Br or Me; $z = 1$, X = NCMe, $CNBu^t$ or CO), 151
Cyclopropane
Regioselectivity of alkylation of the naphthalene fragment in the opening of a small ring in 3-ferrocenyl-3-(1-naphthyl)cyclopropene, *Z*-2-bromo-1-ferrocenyl-1-(1-naphthyl)cyclopropane, and 1-ferrocenyl-1-(1-naphthyl)cyclopropane, 175
Cyclopropene
Regioselectivity of alkylation of the naphthalene fragment in the opening of a small ring in 3-ferrocenyl-3-(1-naphthyl)cyclopropene, *Z*-2-bromo-1-ferrocenyl-1-(1-naphthyl)cyclopropane, and 1-ferrocenyl-1-(1-naphthyl)cyclopropane, 175

Density functional theory
Matrix isolation Raman spectroscopy and photochemistry of $(\eta^5\text{-}C_5H_5)(OC)_2Fe\text{–}SiH_2R$ (R = H, CH_3) in comparison with density functional calculations, 225
Diazabutadiene
Synthesis and redox properties of the cycloheptatrienylmolybdenum complexes $[MoX(N-N)(\eta\text{-}C_7H_7)]^{z+}$, (N–N = 2,2′-bipyridine or 1,4-Bu^t_2-1,3-diazabutadiene; $z = 0$, X = Br or Me; $z = 1$, X = NCMe, $CNBu^t$ or CO), 151
Diazo alkanes
Cycloadditionsreaktionen von Molybdän- und Wolfram-Phosphoniumkomplexen mit Diazoethylacetat: Synthese und strukturelle Charakterisierung von drei- und fünf-gliedrigen Phosphametallacyclen: Phosphenium-Komplexe, 39, 271
Diels–Alder reaction
Diels–Alder reactions of C-phenylated siloles with 1,4-epoxy-1,4-dihydronaphthalene, 85
Dimerization
A straightforward synthesis of symmetrical polyendiynes by dimerization reactions of silyl derivatives, 251
Dimethylsilylene
Paramagnetic intermediates in the photolysis of 7-silanorbornadiene studied by means of spin chemistry method, 73
di-*n*-Butyltin dipropionates
Synthesis, structures and in vitro antitumor activity of some germanium-substituted di-*n*-butyltin dipropionates, 103
Diolefin
(1-Phenyl-3-methyl-4-acetylpyrazolon-5-ato)rhodium(I) complexes, synthesis, structural and spectroscopical characterization: Reactivity of diolefin- and dicarbonyl-rhodium complexes toward N-, P- and O-donors, 187
Diynes
A straightforward synthesis of symmetrical polyendiynes by dimerization reactions of silyl derivatives, 251

Ephedrine
New chiral zwitterionic iron hydride complexes with 'ephosium' and 'valphosium' ligands, 117
Ethylene
Polymerization of ethylene catalyzed by half-metallocene complexes of niobium, tantalum, and zirconium bearing *o*-xylylene or anthracene as an auxiliary ligand: molecular structure of $[Mg_2Cl_3(THF)_6][ZrCl_2(\eta^5\text{-}C_5Me_5)(\eta\text{-}1\text{–}4\text{-anthracene})]$, 111

Ferrocene
Regioselectivity of alkylation of the naphthalene fragment in the opening of a small ring in 3-ferrocenyl-3-(1-naphthyl)cyclopropene, *Z*-2-bromo-1-ferrocenyl-1-(1-naphthyl)cyclopropane, and 1-ferrocenyl-1-(1-naphthyl)cyclopropane, 175
Formato complex
Syntheses and reactivity of oxo niobocene complexes $Cp^*_2Nb(=O)X$ ($X = H, OCH_3$) and crystal structures of $[Cp^*_2Nb(OH)F]BF_4$ and $Cp^*_2Nb(=O)OC(O)H$ ($Cp^* = \eta^5$-C_5Me_5), 203

gem-Dilithioalkenes
Formation and rearrangement of *gem*-dilithiodiphenylethene, 143

High-pressure chemistry
Diels–Alder reactions of C-phenylated siloles with 1,4-epoxy-1,4-dihydronaphthalene, 85
H(Si)/H(C)scrambling
Laser-induced decomposition of silacyclobutane: extensive H(Si)/H(C) scrambling via 1,2-H shift in silene and radical reactions, 263
Hydrido-clusters
Reactions of $[Os_3(\mu\text{-}H)_2(CO)_{10}]$ with [Rh(COD)(L)I] (COD = cycloocta-1,5-diene; L = 2,2′-bipyridine, 1,10-phenanthroline and 4,4′-diphenyl-2,2′-dipyridyl): crystal and molecular structures of $[Os_3Rh(\mu\text{-}H)_3(CO)_{10}(\eta^4\text{-COD})]$, $[Os_3Rh(\mu\text{-}H)_2(CO)_8(\mu\text{-}CO)(\mu\text{-}I)(\eta^4\text{-COD})]$ and $[Os_3Rh(\mu\text{-}H)_2(CO)_8(\mu\text{-}CO)(\mu\text{-}I)(bipy)]$, 237
Hydrogenation
Ruthenium(II) complexes containing both arene and functionalized phosphines. Synthesis and catalytic activity for the hydrogenation of styrene and phenylacetylene, 165

Indenyl ligand
Chiral lanthanocene complexes with an ether-functionalized indene ligand: synthesis and structure of bis{1-(2-methoxyethyl)-indenyl}lanthanocene chlorides, 21
Infrared spectroscopy
Synthesis, structures and in vitro antitumor activity of some germanium-substituted di-*n*-butyltin dipropionates, 103
Iron
Isolation and characterization of $[Fe_2(CO)_6Se_2\{\mu\text{-}(CO)_3Cr(\eta^5\text{-}C_5(H)(CH_2Ph)(Ph)(OEt)\}]$, $[(CO)_6Fe_2\{\mu\text{-}EC(Ph)=C(E')C(H)(OEt)\}]_2$ and $[(CO)_6Fe_2\{\mu\text{-}SC(H)(Ph)C(Te)=C(H)(OEt)\}]$ from the thermolysis of Fischer carbene adducts $[(CO)_6Fe_2EE'\{\mu\text{-}C(Ph)=C-C(OEt)=Cr(CO)_5\}]$ (E, E′ = Se and E = S, E′ = Te), 159

Lanthanide chlorides
Chiral lanthanocene complexes with an ether-functionalized indene ligand: synthesis and structure of bis{1-(2-methoxyethyl)-indenyl}lanthanocene chlorides, 21
Lanthanocene amides
Synthesis of bis(methylcyclopentadienyl)(piperidino)lanthanoids and their catalytic behavior for polymerization of methyl methacrylate, 9
Laser-induced decomposition
Laser-induced decomposition of silacyclobutane: extensive H(Si)/H(C) scrambling via 1,2-H shift in silene and radical reactions, 263
Lithiation
Formation and rearrangement of *gem*-dilithiodiphenylethene, 143
Lithiumorganic compounds
Formation and rearrangement of *gem*-dilithiodiphenylethene, 143

Magnetic field effect
Paramagnetic intermediates in the photolysis of 7-silanorbornadiene studied by means of spin chemistry method, 73
Matrix isolation
Matrix isolation Raman spectroscopy and photochemistry of $(\eta^5\text{-}C_5H_5)(OC)_2Fe-SiH_2R$ (R = H, CH_3) in comparison with density functional calculations, 225
$MeReO_3$–UHP
A catalytic pathway for the conversion of tungsten-silanes into tungsten-silanols, 259
Metal amide
Synthesis and characterization of *rac*-[ethylene-1,2-bis(η^5-4,5,6,7-tetrahydro-1-indenyl)]zirconium bisamides (EBTHI)Zr-$(NHR)_2$, 287
Metal clusters
The first structurally characterized trinickel cluster with an open structure: Crystal and molecular structure of $CpNi[\mu\text{-}\eta^4\text{-}PhC=C(Ph)-C(Ph)=CPh]Ni(\mu\text{-}\eta^2\eta^2\text{-}PhC\equiv CPh)$-NiCp, 217
Metallated compounds
Synthesis of complexes of platinum (II) with *C*,*N*,*N*′-terdentate Schiff base donor ligands. Crystal and molecular structure of $[Pt\{3\text{-}Me\text{-}4\text{-}MeOC_6H_2C(H)=NCH_2CH_2NMe_2\}(Me)]$, 93
Metallo-silanes
A catalytic pathway for the conversion of tungsten-silanes into tungsten-silanols, 259
Metallo-silanols
A catalytic pathway for the conversion of tungsten-silanes into tungsten-silanols, 259
Methyl vinyl ketone
Reactivity of bis(ethylene) complexes of molybdenum(0) versus α,β unsaturated carbonyl compounds. Crystal and molecular structure of $Mo(H_2C=CH-COOMe)_3(PMe_3)$, 211
MMA polymerization
Synthesis of bis(methylcyclopentadienyl)(piperidino)lanthanoids and their catalytic behavior for polymerization of methyl methacrylate, 9
Molecular orbital schemes
Zur Elektronenstruktur metallorganischer Komplexe der f-Elemente XLVII. Gelingt die Aufklärung der Elektronenstrukturen von η^3-Allylverbindungen der Lanthaniden anhand der Kristallfeld-Parameter von Heteroallylkomplexen?, 125
Molybdenum
Reactivity of bis(ethylene) complexes of molybdenum(0) versus α,β unsaturated carbonyl compounds. Crystal and molecular structure of $Mo(H_2C=CH-COOMe)_3(PMe_3)$, 211
Synthesis and redox properties of the cycloheptatrienylmolybdenum complexes $[MoX(N-N)(\eta\text{-}C_7H_7)]^{z+}$, (N–N = 2,2′-bipyridine or 1,4-Bu^t_2-1,3-diazabutadiene; $z = 0$, X = Br or Me; $z = 1$, X = NCMe, $CNBu^t$ or CO), 151
Molybdenum(II)
Seven-coordinate complexes of molybdenum(II) and tungsten(II) containing phosphite donor ligands: X-ray crystal structures of $[WI_2(CO)_3\{P(O^iPr)_3\}_2]$ and $[WI_2(CO)_2\{P(OMe)_3\}_3]$, 245

Naphthalene
Regioselectivity of alkylation of the naphthalene fragment in the opening of a small ring in 3-ferrocenyl-3-(1-naphthyl)cyclopropene, *Z*-2-bromo-1-ferrocenyl-1-(1-naphthyl)cyclopropane, and 1-ferrocenyl-1-(1-naphthyl)cyclopropane, 175
Neodymium
Zur Elektronenstruktur metallorganischer Komplexe der f-Elemente XLVII. Gelingt die Aufklärung der Elektronenstrukturen von η^3-Allylverbindungen der Lanthaniden anhand der Kristallfeld-Parameter von Heteroallylkomplexen?, 125
Nickel
The first structurally characterized trinickel cluster with an open structure: Crystal and molecular structure of $CpNi[\mu\text{-}\eta^4\text{-}PhC=C(Ph)-C(Ph)=CPh]Ni(\mu\text{-}\eta^2\eta^2\text{-}PhC\equiv CPh)$-NiCp, 217

Nickelocene
The first structurally characterized trinickel cluster with an open structure: Crystal and molecular structure of $CpNi[\mu\text{-}\eta^4\text{-}PhC{=}C(Ph){-}C(Ph){=}CPh]Ni(\mu\text{-}\eta^2\eta^2\text{-}PhC{\equiv}CPh)NiCp$, 217
Niobocene
Syntheses and reactivity of oxo niobocene complexes $Cp^*_2Nb(=O)X$ ($X = H, OCH_3$) and crystal structures of $[Cp^*_2Nb(OH)F]BF_4$ and $Cp^*_2Nb(=O)OC(O)H$ ($Cp^* = \eta^5\text{-}C_5Me_5$), 203

Olefin complexes
Reactivity of bis(ethylene) complexes of molybdenum(0) versus α,β unsaturated carbonyl compounds. Crystal and molecular structure of $Mo(H_2C{=}CH{-}COOMe)_3(PMe_3)$, 211
Opening of a three-membered ring
Regioselectivity of alkylation of the naphthalene fragment in the opening of a small ring in 3-ferrocenyl-3-(1-naphthyl)cyclopropene, *Z*-2-bromo-1-ferrocenyl-1-(1-naphthyl)cyclopropane, and 1-ferrocenyl-1-(1-naphthyl)cyclopropane, 175
Optical spectra
Zur Elektronenstruktur metallorganischer Komplexe der f-Elemente XLVII. Gelingt die Aufklärung der Elektronenstrukturen von η^3-Allylverbindungen der Lanthaniden anhand der Kristallfeld-Parameter von Heteroallylkomplexen?, 125
Osmium
Reactions of $[Os_3(\mu\text{-}H)_2(CO)_{10}]$ with [Rh(COD)(L)I] (COD = cycloocta-1,5-diene; L = 2,2′-bipyridine, 1,10-phenanthroline and 4,4′-diphenyl-2,2′-dipyridyl): crystal and molecular structures of $[Os_3Rh(\mu\text{-}H)_3(CO)_{10}(\eta^4\text{-}COD)]$, $[Os_3Rh(\mu\text{-}H)_2(CO)_8(\mu\text{-}CO)(\mu\text{-}I)(\eta^4\text{-}COD)]$ and $[Os_3Rh(\mu\text{-}H)_2(CO)_8(\mu\text{-}CO)(\mu\text{-}I)(bipy)]$, 237
Oxidation
New cationic rhodium–amine complexes and their implication in the catalytic anti-Markovnikov oxidative amination of styrenes, 277
Oxofunctionalization
A catalytic pathway for the conversion of tungsten-silanes into tungsten-silanols, 259
Oxo ligands
Syntheses and reactivity of oxo niobocene complexes $Cp^*_2Nb(=O)X$ ($X = H, OCH_3$) and crystal structures of $[Cp^*_2Nb(OH)F]BF_4$ and $Cp^*_2Nb(=O)OC(O)H$ ($Cp^* = \eta^5\text{-}C_5Me_5$), 203
Oxygen complexes
Paramagnetic intermediates in the photolysis of 7-silanorbornadiene studied by means of spin chemistry method, 73
o-Xylylene
Polymerization of ethylene catalyzed by half-metallocene complexes of niobium, tantalum, and zirconium bearing *o*-xylylene or anthracene as an auxiliary ligand: molecular structure of $[Mg_2Cl_3(THF)_6][ZrCl_2(\eta^5\text{-}C_5Me_5)(\eta\text{-}1\text{–}4\text{-anthracene})]$, 111

Palladium
New palladium (substituted 1,10-phenanthroline) bis(methoxycarbonyl) complexes $[Pd(L{-}L)(CO_2CH_3)_2]$: preparation and structural features, 37
Synthesis and X-ray structure of a novel 12-nuclear cluster $Pd_{12}(CO)_{12}(PBu^n_3)_6$, 15
Paramagnetic susceptibility
Zur Elektronenstruktur metallorganischer Komplexe der f-Elemente XLVII. Gelingt die Aufklärung der Elektronenstrukturen von η^3-Allylverbindungen der Lanthaniden anhand der Kristallfeld-Parameter von Heteroallylkomplexen?, 125
Phenanthroline
(1-Phenyl-3-methyl-4-acetylpyrazolon-5-ato)rhodium(I) complexes, synthesis, structural and spectroscopical characterization: Reactivity of diolefin- and dicarbonyl-rhodium complexes toward N-, P- and O-donors, 187
Phenanthrolines
New palladium (substituted 1,10-phenanthroline) bis(methoxycarbonyl) complexes $[Pd(L{-}L)(CO_2CH_3)_2]$: preparation and structural features, 37
Phosphametallacycles
Cycloadditionsreaktionen von Molybdän- und Wolfram-Phosphheniumkomplexen mit Diazoethylacetat: Synthese und strukturelle Charakterisierung von drei- und fünf-gliedrigen Phosphametallacyclen: Phosphenium-Komplexe, 39, 271
Phosphenium complexes
Cycloadditionsreaktionen von Molybdän- und Wolfram-Phosphheniumkomplexen mit Diazoethylacetat: Synthese und strukturelle Charakterisierung von drei- und fünf-gliedrigen Phosphametallacyclen: Phosphenium-Komplexe, 39, 271
Phosphine
Ruthenium(II) complexes containing both arene and functionalized phosphines. Synthesis and catalytic activity for the hydrogenation of styrene and phenylacetylene, 165
Phosphines
Synthesis and X-ray structure of a novel 12-nuclear cluster $Pd_{12}(CO)_{12}(PBu^n_3)_6$, 15
Phosphites
Seven-coordinate complexes of molybdenum(II) and tungsten(II) containing phosphite donor ligands: X-ray crystal structures of $[WI_2(CO)_3\{P(O^iPr)_3\}_2]$ and $[WI_2(CO)_2\{P(OMe)_3\}_3]$, 245
Phospholes
Study of the planarization of the tricordinate phosphorus in phospholes; photoelectron spectra and structure of partially planarized phospholes, 29
Photochemistry
Matrix isolation Raman spectroscopy and photochemistry of $(\eta^5\text{-}C_5H_5)(OC)_2Fe{-}SiH_2R$ ($R = H, CH_3$) in comparison with density functional calculations, 225
Photoelectron spectra
Study of the planarization of the tricordinate phosphorus in phospholes; photoelectron spectra and structure of partially planarized phospholes, 29
Platnium(II) complexes
Synthesis of complexes of platinum (II) with *C,N,N′*-terdentate Schiff base donor ligands. Crystal and molecular structure of $[Pt\{3\text{-}Me\text{-}4\text{-}MeOC_6H_2C(H){=}NCH_2CH_2NMe_2\}(Me)]$, 93
Polymerization
Polymerization of ethylene catalyzed by half-metallocene complexes of niobium, tantalum, and zirconium bearing *o*-xylylene or anthracene as an auxiliary ligand: molecular structure of $[Mg_2Cl_3(THF)_6][ZrCl_2(\eta^5\text{-}C_5Me_5)(\eta\text{-}1\text{–}4\text{-anthracene})]$, 111

Quasi dianion complexes
Formation and rearrangement of *gem*-dilithiodiphenylethene, 143

Raman spectroscopy
Matrix isolation Raman spectroscopy and photochemistry of $(\eta^5\text{-}C_5H_5)(OC)_2Fe{-}SiH_2R$ ($R = H, CH_3$) in comparison with density functional calculations, 225
Reactivity
Syntheses and reactivity of oxo niobocene complexes $Cp^*_2Nb(=O)X$ ($X = H, OCH_3$) and crystal structures of $[Cp^*_2Nb(OH)F]BF_4$ and $Cp^*_2Nb(=O)OC(O)H$ ($Cp^* = \eta^5\text{-}C_5Me_5$), 203
Rearrangement
Formation and rearrangement of *gem*-dilithiodiphenylethene, 143
Redox chemistry
Synthesis and redox properties of the cycloheptatrienylmolybdenum complexes $[MoX(N{-}N)(\eta\text{-}C_7H_7)]^{z+}$, (N–N = 2,2′-bipyridine or 1,4-Bu^t_2-1,3-diazabutadiene; $z = 0$, X = Br or Me; $z = 1$, X = NCMe, $CNBu^t$ or CO), 151

Rhodium
(1-Phenyl-3-methyl-4-acetylpyrazolon-5-ato)rhodium(I) complexes, synthesis, structural and spectroscopical characterization: Reactivity of diolefin- and dicarbonyl-rhodium complexes toward N-, P- and O-donors, 187
Reactions of $[Os_3(\mu\text{-}H)_2(CO)_{10}]$ with [Rh(COD)(L)I] (COD = cycloocta-1,5-diene; L = 2,2′-bipyridine, 1,10-phenanthroline and 4,4′-diphenyl-2,2′-dipyridyl): crystal and molecular structures of $[Os_3Rh(\mu\text{-}H)_3(CO)_{10}(\eta^4\text{-}COD)]$, $[Os_3Rh(\mu\text{-}H)_2(CO)_8(\mu\text{-}CO)(\mu\text{-}I)(\eta^4\text{-}COD)]$ and $[Os_3Rh(\mu\text{-}H)_2(CO)_8(\mu\text{-}CO)(\mu\text{-}I)(bipy)]$, 237
Rhodium complexes
New cationic rhodium–amine complexes and their implication in the catalytic anti-Markovnikov oxidative amination of styrenes, 277
Ruthenium
Ruthenium(II) complexes containing both arene and functionalized phosphines. Synthesis and catalytic activity for the hydrogenation of styrene and phenylacetylene, 165

Schiff base complexes
Synthesis of complexes of platinum (II) with *C,N,N′*-terdentate Schiff base donor ligands. Crystal and molecular structure of $[Pt\{3\text{-}Me\text{-}4\text{-}MeOC_6H_2C(H)=NCH_2CH_2NMe_2\}(Me)]$, 93
Seven-coordinates
Seven-coordinate complexes of molybdenum(II) and tungsten(II) containing phosphite donor ligands: X-ray crystal structures of $[WI_2(CO)_3\{P(O^iPr)_3\}_2]$ and $[WI_2(CO)_2\{P(OMe)_3\}_3]$, 245
Silacyclobutane
Laser-induced decomposition of silacyclobutane: extensive H(Si)/H(C) scrambling via 1,2-H shift in silene and radical reactions, 263
7-Silanorbornene
Diels–Alder reactions of C-phenylated siloles with 1,4-epoxy-1,4-dihydronaphthalene, 85
Silene
Laser-induced decomposition of silacyclobutane: extensive H(Si)/H(C) scrambling via 1,2-H shift in silene and radical reactions, 263
Silicon and compounds
A straightforward synthesis of symmetrical polyendiynes by dimerization reactions of silyl derivatives, 251
Silyl metal complexes
Matrix isolation Raman spectroscopy and photochemistry of $(\eta^5\text{-}C_5H_5)(OC)_2Fe\text{–}SiH_2R$ (R = H, CH_3) in comparison with density functional calculations, 225
Single crystal X-ray study
Synthesis and X-ray structure of a novel 12-nuclear cluster $Pd_{12}(CO)_{12}(PBu^n_3)_6$, 15
Stereochemistry
Diels–Alder reactions of C-phenylated siloles with 1,4-epoxy-1,4-dihydronaphthalene, 85
Structures
Syntheses and reactivity of oxo niobocene complexes $Cp^*_2Nb(=O)X$ (X = H, OCH_3) and crystal structures of $[Cp^*_2Nb(OH)F]BF_4$ and $Cp^*_2Nb(=O)OC(O)H$ ($Cp^* = \eta^5\text{-}C_5Me_5$), 203
Synthesis
Chiral lanthanocene complexes with an ether-functionalized indene ligand: synthesis and structure of bis{1-(2-methoxyethyl)-indenyl}lanthanocene chlorides, 21
Synthesis of bis(methylcyclopentadienyl)(piperidino)lanthanoids and their catalytic behavior for polymerization of methyl methacrylate, 9

Tantalum
Polymerization of ethylene catalyzed by half-metallocene complexes of niobium, tantalum, and zirconium bearing *o*-xylylene or anthracene as an auxiliary ligand: molecular structure of $[Mg_2Cl_3(THF)_6][ZrCl_2(\eta^5\text{-}C_5Me_5)(\eta\text{-}1\text{–}4\text{-anthracene})]$, 111
Thiophene
Synthesis, characterization and decomposition patterns for thienylene bridged dinuclear biscarbene complexes of manganese and chromium in refluxing carbon disulphide and acetone, 133
Tungsten(II)
Seven-coordinate complexes of molybdenum(II) and tungsten(II) containing phosphite donor ligands: X-ray crystal structures of $[WI_2(CO)_3\{P(O^iPr)_3\}_2]$ and $[WI_2(CO)_2\{P(OMe)_3\}_3]$, 245

Unsaturated amides
Reactivity of bis(ethylene) complexes of molybdenum(0) versus α,β unsaturated carbonyl compounds. Crystal and molecular structure of $Mo(H_2C{=}CH\text{–}COOMe)_3(PMe_3)$, 211
Unsaturated esters
Reactivity of bis(ethylene) complexes of molybdenum(0) versus α,β unsaturated carbonyl compounds. Crystal and molecular structure of $Mo(H_2C{=}CH\text{–}COOMe)_3(PMe_3)$, 211

Valinol
New chiral zwitterionic iron hydride complexes with 'ephosium' and 'valphosium' ligands, 117

X-ray
Diels–Alder reactions of C-phenylated siloles with 1,4-epoxy-1,4-dihydronaphthalene, 85
X-ray diffraction
Isolation and characterization of $[Fe_2(CO)_6Se_2\{\mu\text{-}(CO)_3Cr(\eta^5\text{-}C_5(H)(CH_2Ph)(Ph)(OEt)\}]$, $[(CO)_6Fe_2\{\mu\text{-}EC(Ph){=}C(E')C(H)(OEt)\}]_2$ and $[(CO)_6Fe_2\{\mu\text{-}SC(H)(Ph)C(Te){=}C(H)(OEt)\}]$ from the thermolysis of Fischer carbene adducts $[(CO)_6Fe_2EE'\{\mu\text{-}C(Ph){=}C\text{–}C(OEt){=}Cr(CO)_5\}]$ (E, E′ = Se and E = S, E′ = Te), 159
X-ray structural analysis
Regioselectivity of alkylation of the naphthalene fragment in the opening of a small ring in 3-ferrocenyl-3-(1-naphthyl)cyclopropene, *Z*-2-bromo-1-ferrocenyl-1-(1-naphthyl)cyclopropane, and 1-ferrocenyl-1-(1-naphthyl)cyclopropane, 175
X-ray structure
New palladium (substituted 1,10-phenanthroline) bis(methoxycarbonyl) complexes $[Pd(L\text{–}L)(CO_2CH_3)_2]$: preparation and structural features, 37
Synthesis of bis(methylcyclopentadienyl)(piperidino)lanthanoids and their catalytic behavior for polymerization of methyl methacrylate, 9

Yttrium
Chiral lanthanocene complexes with an ether-functionalized indene ligand: synthesis and structure of bis{1-(2-methoxyethyl)-indenyl}lanthanocene chlorides, 21

Zirconium
Polymerization of ethylene catalyzed by half-metallocene complexes of niobium, tantalum, and zirconium bearing *o*-xylylene or anthracene as an auxiliary ligand: molecular structure of $[Mg_2Cl_3(THF)_6][ZrCl_2(\eta^5\text{-}C_5Me_5)(\eta\text{-}1\text{–}4\text{-anthracene})]$, 111
Synthesis and characterization of *rac*-[ethylene-1,2-bis(η^5-4,5,6,7-tetrahydro-1-indenyl)]zirconium bisamides (EBTHI)Zr-$(NHR)_2$, 287
Zirconocene
Synthesis and characterization of *rac*-[ethylene-1,2-bis(η^5-4,5,6,7-tetrahydro-1-indenyl)]zirconium bisamides (EBTHI)Zr-$(NHR)_2$, 287
Zwitterionic hydrides
New chiral zwitterionic iron hydride complexes with 'ephosium' and 'valphosium' ligands, 117